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Hamburg. (M. Rümker.)

1851.	Hamburg M.T. h m s	App. R.A. ° ′ ″	App. Dec. ° ′ ″	
July 24	12 30 22·7	28 30 43·2	+6 57 45·2	
27	14 31 31·7	29 19 24·5	+7 7 16·1	
30	12 31 42·1	30 3 22·0	15 20·8	
Aug. 2	12 52 9·7	30 45 56·4	22 51·8	Correct.
4	12 30 26·7	31 12 45·5	27 1·1	
5	12 37 57·0	31 25 52·2	+7 28 57·9	

Not corrected for parallax.

Elements, No. IV.

Calculated by M. R. Luther.

Epoch 1851, October 22 0^h^, Mean Time, Berlin.

	° ′ ″	
M	60 46 39·76	
π	317 4 47·96	Mean Eq. 1851, Jan. 0.
☊	124 58 56·87	
i	4 36 53·48	
φ	5 37 4·32	
μ	926″·22181	

Ephemeris.

By MM. R. Luther and E. Vogel, of Berlin.

For 0^h Berlin M.T.

1851.	R.A. h m s	Decl. ° ′ ″	Log Δ.	Time of Aberr. in parts of a Day.
Aug. 24	2 17 48·68	+7 37 28·0	0·221828	0·00951
25	18 13·37	36 28·3	·219301	946
26	18 36·41	35 19·2	·216781	940
27	18 57·79	34 0·9	·214270	935
28	19 17·49	32 33·3	·211768	929
29	19 35·49	30 56·7	·209277	924
30	19 51·80	29 11·0	·206798	919
31	20 6·39	27 16·2	·204333	914
Sept. 1	20 19·24	25 12·4	·201883	909
2	20 30·32	22 59·5	·199449	903
3	20 39·64	20 37·6	·197033	898
4	20 47·21	18 7·0	·194635	893
5	20 53·01	15 27·6	·192256	889
6	20 57·02	12 39·5	·189900	884
7	20 59·24	9 42·7	·187566	879
8	20 59·67	6 37·4	·185256	874
Sept. 9	2 20 58·29	+7 3 23·6	0·182973	0·00870

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1851.		R.A.	Decl.	Log Δ.	Time of Aberr. in parts of a Day.
		h m s	° ′ ″		
Sept.	10	2 20 55·09	+7 0 1·2	0·180717	0·00865
	11	20 50·07	6 56 30·6	·178491	861
	12	20 43·23	52 51·7	·176295	857
	13	20 34·56	49 4·7	·174132	852
	14	20 24·07	45 9·8	·172002	848
	15	20 11·77	41 7·1	·169908	844
	16	19 57·64	36 56·7	·167851	840
	17	19 41·69	32 38·8	·165834	836
	18	19 23·94	28 13·4	·163858	832
	19	19 4·38	23 41·0	·161926	829
	20	18 43·03	19 1·5	·160038	825
	21	18 19·91	14 15·4	·158199	822
	22	17 55·03	9 22·6	·156410	818
	23	17 28·41	6 4 23·6	·154672	815
	24	17 0·10	5 59 18·7	·152986	812
	25	16 30·11	54 8·0	·151356	809
	26	15 58·49	48 51·9	·149784	806
	27	15 25·25	43 30·7	·148270	803
	28	14 50·45	38 4·7	·146816	800
	29	14 14·10	32 34·5	·145425	798
	30	13 36·27	27 0·2	·144099	795
Oct.	1	12 56·99	21 22·4	·142839	793
	2	12 16·30	15 41·3	·141646	791
	3	11 34·28	9 57·3	·140523	789
	4	10 50·97	5 4 10·7	·139472	787
	5	10 6·41	4 58 22·2	·138493	785
	6	9 20·67	52 31·9	·137588	783
	7	8 33·81	46 40·6	·136757	782
	8	7 45·89	40 48·4	·136002	781
	9	6 56·95	34 55·7	·135325	779
	10	6 7·07	29 3·2	·134725	778
	11	5 16·31	23 11·1	·134205	777
	12	4 24·71	17 20·0	·133767	777
	13	3 32·35	11 30·3	·133410	776
	14	2 39·31	4 5 42·3	·133136	776
	15	1 45·65	3 59 56·6	·132944	775
	16	2 0 51·45	54 13·5	·132836	775
	17	1 59 56·78	48 33·6	·132813	775
	18	59 1·73	42 57·4	·132875	775
	19	58 6·36	37 25·3	·133021	775
	20	57 10·76	31 57·9	·133253	776
	21	56 15·01	26 35·4	·133570	776
Oct.	22	1 55 19·19	+3 21 18·5	0·133973	0·00777

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1851.		R.A.	Decl.	Log Δ.	Time of Aberr. in parts of a Day.
		h m s	° ′ ″		
Oct.	23	1 54 23·35	+3 16 7·5	0·134461	0·00778
	24	53 27·59	11 2·7	·135036	779
	25	52 32·00	6 4·9	·135696	780
	26	51 36·65	3 1 14·2	·136440	781
	27	50 41·61	2 56 31·3	·137268	783
	28	49 46·99	51 56·5	·138179	785
	29	48 52·85	47 30·1	·139171	786
	30	47 59·27	43 12·6	·140244	788
	31	47 6·33	39 4·2	·141397	790
Nov.	1	46 14·08	35 5·3	·142629	793
	2	45 22·60	31 15·9	·143938	795
	3	44 31·94	27 36·7	·145322	798
	4	43 42·17	24 7·8	·146781	800
	5	42 53·35	20 49·3	·148312	803
	6	42 5·54	17 41·7	·149915	806
	7	41 18·79	14 45·1	·151588	809
	8	40 33·15	11 59·5	·153328	812
	9	39 48·68	9 25·2	·155134	816
	10	39 5·42	7 2·3	·157005	819
	11	38 23·42	4 51·0	·158938	823
	12	37 42·72	2 51·4	·160934	827
	13	37 3·36	2 1 3·3	·162989	831
	14	36 25·38	1 59 27·2	·165102	835
	15	35 48·81	58 2·9	·167270	839
	16	35 13·69	56 50·7	·169493	843
	17	34 40·05	55 50·5	·171768	848
	18	34 7·93	55 2·3	·174093	852
	19	33 37·35	54 26·2	·176467	857
	20	33 8·35	54 2·2	·178887	862
	21	32 40·95	53 50·1	·181352	867
	22	32 15·16	53 50·2	·183859	872
	23	31 51·02	54 2·4	·186407	877
	24	31 28·53	54 26·6	·188994	882
	25	31 7·73	55 2·8	·191617	887
	26	30 48·60	55 50·9	·194275	893
	27	30 31·18	56 50·8	·196966	898
	28	30 15·45	58 2·2	·199688	904
	29	30 1·45	1 59 25·2	·202439	910
	30	29 49·15	2 0 59·5	·205218	916
Dec.	1	29 38·57	2 45·0	·208023	922
	2	29 29·70	4 41·9	·210851	928
	3	29 22·51	6 49·8	·213701	934
Dec.	4	1 29 17·03	+2 9 8·6	0·216571	0·00940

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1851.	R.A. h m s	Decl. ° ′ ″	Log Δ.	Time of Aberr. in parts of a Day.
Dec. 5	1 29 13·23	+2 11 37·9	0·219461	0·00946
6	29 11·12	14 17·8	·222368	952
7	29 10·68	17 8·0	·225290	959
8	29 11·90	20 8·3	·228227	965
9	29 14·76	23 18·7	·231177	972
10	29 19·27	26 38·8	·234138	979
11	29 25·40	30 8·8	·237110	985
12	29 33·15	33 48·2	·240091	992
13	29 42·51	37 36·8	·243081	0·00999
14	29 53·45	41 34·7	·246079	0·01006
15	30 5·98	45 41·4	·249082	1013
16	30 20·08	49 57·0	·252090	1020
17	30 35·73	54 21·1	·255102	1027
18	30 52·93	2 58 53·8	·258117	1034
19	31 11·63	3 3 34·7	·261133	1041
20	31 31·86	8 23·8	·264150	1049
21	31 53·57	13 20·8	·267167	1056
22	32 16·76	18 25·7	·270183	1063
23	32 41·41	23 38·2	·273196	1071
24	33 7·50	28 58·3	·276206	1078
25	33 35·02	34 25·6	·279212	1086
26	34 3·95	40 0·0	·282213	1093
27	34 34·27	45 41·2	·285207	1101
28	35 5·96	51 29·2	·288195	1108
29	35 38·99	3 57 23·8	·291175	1116
30	36 13·37	4 3 24·9	·294148	1124
31	36 49·05	9 32·1	·297114	1131
32	37 26·01	15 45·4	·300070	1139
33	38 4·25	22 4·5	·303014	1147
34	1 38 43·72	+4 28 29·3	0·305948	0·01155

HYGEIA.

Liverpool. Equatoreal. (Mr. Hartnup.)

1851.	Green. M.T. h m s	R.A. h m s	N.P.D. ° ′ ″	Comp^d—Obs^d. R.A. s	Comp^d—Obs^d. N.P.D. ″	Stars of Comp. B.A.C.
Sept. 14	11 34 36·9	0 20 3·39	82 12 11·2	−1·57	+12·3	26, 8331
	12 16 29·9	2·28	18·9	1·65	11·1	— —
15	10 16 11·9	0 19 23·97	82 15 45·7	1·50	10·7	— —
	10 56 5·1	22·83	50·6	−1·51	+12·1	— —

The assumed *mean* places of the stars of comparison are those given for *Iris*. The observed places of the planet have been corrected for refraction and parallax. The computed places were deduced from the ephemeris contained in the supplement to the *Nautical Almanac* for 1854.

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